## WHAT IS CLAIMED IS:

- 1. A liquid crystal display apparatus comprising:
- a light conductor plate;
- a light source arranged on a side surface of the light conductor plate so as to light a liquid crystal cell arranged on a front surface side of the light conductor plate from a back surface side thereof; and

said light conductor plate having an incident surface for a light from the light source, a light emitting surface for emitting the input light to the liquid crystal cell, and a plurality of dots constituted by small projecting portions or small recess portions for changing a moving direction of the light from the incidence surface toward a direction of the light emitting surface, said dots being formed in the light emitting surface and a surface of the light conductor plate opposite to the light emitting surface with each of said dots having a height or depth within a range of 2 to 100  $\mu \rm m$ .

- A liquid crystal display apparatus comprising:
- a light conductor plate;
- a light source arranged on a side surface of the light conductor plate so as to light a liquid crystal cell arranged on a front surface side of the light conductor plate from a back surface side thereof; and

said light conductor plate having an incident surface for a light from the light source, a light emitting surface

for emitting the input light to the liquid crystal cell, and a plurality of dots constituted by small projecting portions or small recess portions for changing a moving direction of the light from the incidence surface toward a direction of the light emitting surface, said dots being formed in a surface of the light conductor plate opposite to the light emitting surface with each of said dots having a height or depth within a range of 2 to 100  $\mu m$ .

- 3. A liquid crystal display apparatus comprising:
- a light conductor plate;
- a light source arranged on a side surface of the light conductor plate so as to light a liquid crystal cell arranged on a front surface side of the light conductor plate from a back surface side thereof; and

said light conductor plate having an incident surface for a light from the light source, a light emitting surface for emitting the input light to the liquid crystal cell, and a plurality of dots constituted by small projecting portions or small recess portions for changing a moving direction of the light from the incidence surface toward a direction of the light emitting surface, said dots being formed in the light emitting surface of the light conductor plate with each of said dots having a height or depth within a range of 2 to 100  $\mu m$ .

4. The apparatus according to claim 1, wherein each of said dots has an area within a range of 0.2 to 0.000025

square mm, and an angle of inclination of a cross section of the dot is within a range of 7 to 43 degrees.

- 5. The apparatus according to claim 2, wherein each of said dots has an area within a range of 0.2 to 0.000025 square mm, and an angle of inclination of a cross section of the dot is within a range of 7 to 43 degrees.
- 6. The apparatus according to claim 3, wherein each of said dots has an area within a range of 0.2 to 0.000025 square mm, and an angle of inclination of a cross section of the dot is within a range of 7 to 43 degrees.
  - 7. A liquid crystal display apparatus comprising:
  - a light conductor plate;
- a light source arranged on a side surface of the light conductor plate so as to light a liquid crystal cell arranged on a front surface side of the light conductor plate from a back surface side thereof; and

said light conductor plate having an incident surface for a light from the light source, a light emitting surface for emitting the input light to the liquid crystal cell, and a plurality of dots constituted by small projecting portions or small recess portions for changing a moving direction of the light from the incidence surface toward a direction of the light emitting surface, said dots being formed in at least one of the light emitting surface and a surface of the light conductor plate opposite to the light

emitting surface, each of said dots having an area within a range of 0.2 to 0.000025 square mm, an angle of inclination of a cross section thereof within a range of 50 to 85 degrees and a height or depth within a range of 5 to 40  $\mu m$ .